

**ABSTRACT**

In order to adjust position of color combining optical system relative to a color separating optical system accommodated in an optical component casing for producing a projector, a white laser beam is irradiated on an optical axis of a light beam passing through the optical component casing and is separated by the color separating optical system, the separated respective color lights being incident on a light-incident end surface of the color combining optical system to be combined, the combined light beam being detected by a sensor, in which the position is adjusted while detecting the combined light beam.

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